

CITY PENSION FUND FOR FIREFIGHTERS AND POLICE OFFICERS IN THE CITY OF MIAMI BEACH

ACTUARIAL VALUATION AS OF OCTOBER 1, 2013

This Valuation Determines the Annual Contribution for the Fund Year October 1, 2014 through September 30, 2015 to be paid in Fiscal Year October 1, 2014 to September 30, 2015

May 14, 2014

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May 14, 2014

Ms. Celia B. Locke, CEBS
Executive Director
City Pension Fund for Firefighters and Police Officers in the City of Miami Beach
1691 Michigan Avenue, Suite 355
Miami Beach, Florida 33139

Dear Celia:

October 1, 2013 Actuarial Valuation

We are pleased to present our October 1, 2013 Actuarial Valuation for the City Pension Fund for Firefighters and Police Officers in the City of Miami Beach. The purpose of this report is to indicate appropriate contribution levels, comment on the actuarial stability of the Fund and to satisfy State requirements. The Board of Trustees has retained Gabriel, Roeder, Smith and Company (GRS) to prepare an annual actuarial valuation under Section 63 of the Fund Ordinance.

This report consists of this commentary, detailed Tables I through XVIII and the State Required Exhibit on Table XIX. The Tables contain basic Fund cost figures plus significant details on the benefits, liabilities and experience of the Fund. We suggest that you thoroughly review the report at your convenience and contact us with any questions that may arise.

Retirement Fund Costs

Our Actuarial Valuation develops the required minimum Retirement Fund payment under the Florida Protection of Public Employee Retirement Benefits Act and for Fire and Police Retirement Chapters 175 and 185. The minimum payment consists of payment of annual normal costs including amortization of the components of the unfunded actuarial accrued liability over various periods as prescribed by law. The minimum required contribution for fiscal year ending September 30, 2015 is \$37,865,791 (80.3% / 65.5%). The figures in parentheses is the Fund cost expressed as a percentage of projected annual pensionable payroll excluding DROP payroll (\$47,164,032) and projected annual pensionable payroll including DROP payroll (\$57,851,961) respectively for fiscal year ending September 30, 2015.

This total cost is to be met by member, City and State (Share Plan) contributions. We anticipate that member contributions will be \$4,716,403 (10.0% / 8.2%), the State (Share Plan) will contribute \$120,549 (0.3% / 0.2%) and the resulting minimum required City contribution will be \$33,028,839 (70.0% / 57.1%). The City contribution includes an interest adjustment and must be increased if State contributions are less than \$120,549.

Ms. Celia B. Locke, CEBS May 14, 2014 Page Two

The City contribution requirements presented above reflect an annual payment at the beginning of the fiscal year according to our understanding of the City's payment schedule.

Changes in Actuarial Assumptions, Methods and Fund Benefits

Fund provisions are unchanged from the October 1, 2012 Actuarial Impact Statement. Fund provisions are summarized on Table IX.

The method used to determine the actuarial value of assets has been updated to phase in the deviation between the expected and actual return on assets at a rate of 20% per year. Pensionable pay adjusted for overtime for purposes of member contributions is reduced from 20% to 16% to reflect the annual limit on overtime to 300 hours for purposes of expected member contributions. DROP account balances are included in the assets and liabilities. Inclusion of DROP account balances in assets and liabilities is required for accounting purposes under GASB 67 (and 68) but does not affect contribution requirements.

The remaining actuarial assumptions and methods are unchanged from the October 1, 2012 Actuarial Impact Statement. The actuarial assumptions and methods are outlined on Table X.

Projected Government Accounting Standards Board Statement Number 67 (GASB 67) disclosures are included.

Comparison of October 1, 2012 and October 1, 2013 Valuation Results

Table II of our report provides information of a comparative nature. The left columns of the Table indicate the costs as calculated for October 1, 2012. The center right columns indicate the costs as calculated for October 1, 2013, prior to the update in actuarial assumptions and methods. The right columns indicate the costs as calculated for October 1, 2013, after the update in actuarial assumptions and methods.

Comparing the left center and right center columns of Table II shows the effect of Fund experience during the year. The number of active participants <u>increased</u> by approximately 7%. Projected pensionable payroll <u>increased</u> by approximately 5%. Total Fund membership <u>increased</u> by approximately 4%. Total normal cost <u>increased</u> both as a dollar amount and as a percentage of covered payroll. The unfunded actuarial accrued liability <u>decreased</u> both as a dollar amount and as a percentage of payroll. The net City minimum funding requirement <u>increased</u> both as a dollar amount but <u>decreased</u> as a percentage of payroll.

Comparing the center right and right columns of Table II shows the effect of the update of the actuarial assumptions and methods. The unfunded actuarial liability and minimum funding requirement decreased both as a percentage of covered payroll and as a dollar amount.

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The value of vested accrued benefits exceeds Fund assets, resulting in a Vested Benefit Security Ratio (VBSR) of 78.8% which is an <u>increase</u> from 74.6% as of the October 1, 2012 Actuarial Valuation Report. The VBSR is measured on a market value of assets basis.

Fund Experience

The Fund experienced an actuarial loss in the amount of \$1,540,235 this year. This indicates net Fund experience was less favorable than expected based upon the actuarial assumptions.

Table XVII (salary, turnover and investment yield) provides figures on recent Fund experience.

Salary experience indicates actual salary increases averaged approximately 3.9% for Fund Year ended September 30, 2013. The average salary increase assumption was 3.8%. Salary increase experience was generally a source of actuarial loss. Three, five and ten-year average annual salary increases are 4.3%, 4.7% and 6.1%, respectively.

Employee turnover this year was approximately 110% of the assumed and was generally an offsetting source of actuarial gain.

This year's smoothed value investment return of 8.8% (prior method) was more than the Fund's investment return assumption of 8.0%. Smoothed investment return was an offsetting source of actuarial gain during the year. Three, five and ten year average annual investment returns are 5.0%, 4.7% and 5.8%, respectively on a smoothed actuarial value basis (prior method). Average annual market value returns for the one, three, five and ten-year periods have been 13.1%, 10.6%, 8.7% and 7.3%, respectively.

Member Census and Financial Data

The Board submitted the Member census data as of October 1, 2013 used for this actuarial valuation to us. This information contains name, Social Security number, date of birth, date of hire, October 1, 2013 rate of pay and member contributions for the previous year. Dates of termination and retirement are provided where applicable. The Board updated information on inactive participants including retirees, beneficiaries and vested terminees.

We received financial information as of September 30, 2013 concerning Fund assets from the Fund Auditors. We do not audit the Member census data and asset information that is provided to us. However, we perform certain reasonableness checks and on this basis we believe that the information that we received is reliable.

Summary

In our opinion the benefits provided for under the current Fund will be sufficiently funded through the payment of the amount as indicated in this and future Actuarial Valuation reports. We will

Ms. Celia B. Locke, CEBS May 14, 2014 Page Four

continue to update you on the future payment requirements for the Fund through our actuarial reports. These reports will also continue to monitor the future experience of the Fund.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: Fund experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in Fund provisions or applicable law. Due to the limited scope of the actuary's assignment, the actuary did not perform an analysis of the potential range of such future measurements.

This report should not be relied on for any purpose other than the purpose described in the primary communication. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Fund as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

This report may be provided to parties other than the Board only in its entirety and only with the permission of an approved representative of the Board.

The signing actuaries are independent of the Fund sponsor.

The undersigned are Members of the American Academy of Actuaries and meet the qualification standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. We are available to respond to any questions with regards to matters covered in this report.

Very truly yours,

Lawrence F. Wilson, A.S.A.

Senior Consultant and Actuary

Kelly L. Adams, A.S.A. Consultant and Actuary

Kelly 2. Alans

Summary of Retirement Plan Costs as of October 1, 2013

| | | | Prior Me and Assur | | | Current N and Assur | |
|-----|---|------|--------------------|---------------------|------|------------------------|---------------------|
| | | | Cost Data | % of Pensionable | | Cost | % of Pensionable |
| Α | Participant Data Summary (Table III) | | Data | <u>Payroll</u> | | <u>Data</u> | <u>Payroll</u> |
| 71. | 1. Active Employees | | 458 | N/A | | 458 | N/A |
| | 2. Terminated Vested | | 15 | N/A | | 15 | N/A N/A |
| | 3. Receiving Benefits (including DROPs) | | 696 | N/A | | 696 | N/A |
| | 4. Total Annual Base Payroll ¹ | ¢ | 39,283,718 | 80.5% | \$ | 39,283,718 | 83.3% |
| | 5. Projected Annual Base Payroll ² | Ф | 40,658,648 | 83.3% | Ф | 40,658,648 | 86.2% |
| | 6. Projected Annual Pensionable Payroll ³ | | 48,790,378 | 100.0% | | 47,164,032 | 100.0% |
| | 7. Projected Annual Pensionable Payroll including DROP ⁴ | | 59,478,306 | 121.9% | | 57,851,961 | 122.7% |
| В. | Total Normal Costs | | | | | | |
| | 1. Age Retirement Benefits | \$ | 12,132,848 | 24.9% | - \$ | 12,132,848 | 25.7% |
| | 2. Termination Benefits | | 624,393 | 1.3% | | 624,393 | 1.3% |
| | 3. Death Benefits | | 412,435 | 0.8% | | 412,435 | 0.9% |
| | 4. Disability Benefits | | 1,593,919 | 3.3% | | 1,593,919 | 3.4% |
| | 5. Estimated Expenses | | 805,919 | 1.7% | | 805,919 | 1.7% |
| | 6. Total Annual Normal Costs | \$ | 15,569,514 | 31.9% | \$ | 15,569,514 | 33.0% |
| C. | Total Actuarial Accrued Liability | | | | | | |
| | 1. Age Retirement Benefits Active Employees | \$ | 192,804,715 | 395.2% | \$ | 192,804,715 | 408.8% |
| | 2. Termination Benefits Active Employees | | 1,278,461 | 2.6% | | 1,278,461 | 2.7% |
| | 3. Death Benefits Active Employees | | 1,117,380 | 2.3% | | 1,117,380 | 2.4% |
| | 4. Disability Benefits Active Employees | | 9,227,034 | 18.9% | | 9,227,034 | 19.6% |
| | 5. Retired or Terminated Vested Participants | | | | | | |
| | Receiving Benefits (including DROPs) | | 676,822,574 | 1387.2% | | 676,822,574 | 1435.0% |
| | 6. Terminated Vested Participants Entitled to | | | | | | |
| | Future Benefits | | 3,097,833 | 6.3% | | 3,097,833 | 6.6% |
| | 7. Deceased Participants Whose Beneficiaries | | | | | | |
| | are Receiving Benefits | | 30,280,652 | 62.1% | | 30,280,652 | 64.2% |
| | 8. Disabled Participants Receiving Benefits | | 40,609,957 | 83.2% | | 40,609,957 | 86.1% |
| | 9. Miscellaneous Liability (Refunds in Process) | | 0 | 0.0% | | 0 | 0.0% |
| | 10. Total Actuarial Accrued Liability | \$! | 955,238,606 | 1957.8% | \$ | 955,238,606 | 2025.4% |

¹ Total Annual Base Payroll - Participant's base pay (including salary, premiums and longevity) at snapshot date of September 30th increased by assumed salary scale to reflect pay increases that are usually granted in October. Premiums are any salary or pay on which longevity is calculated.

² Projected Annual Base Payroll - Total Annual Base Payroll projected to the end of year (and beginning of fiscal year for which the city contributions are determined) by assuming an aggregate increase in payroll of 3.5%.

³ Projected Annual Pensionable Payroll - Projected Annual Base Payroll loaded to reflect estimated other pays included in pensionable pay as of October 1, 2009.

⁴ Projected Annual Pensionable Payroll including DROP - Projected Annual Pensionable Payroll plus DROP participants pay at snapshot date of September 30th increased by assumed salary scale to reflect pay increases that are usually granted in October and then projected to the end of the year assuming an aggregate increase in payroll of 3.5%.

Summary of Retirement Plan Costs as of October 1, 2013

| | | | Prior Me | | Current M and Assun | |
|----|---|----------------|-------------|------------------|------------------------|------------------|
| | | | Cost | % Pensionable | Cost | % Pensionable |
| | | | <u>Data</u> | <u>Payroll</u> | <u>Data</u> | <u>Payroll</u> |
| D. | Assets (Table V) | | | | | |
| | 1. Smoothed Actuarial Value of Assets | \$ | 599,336,717 | 1228.4% | \$ 663,233,454 | 1406.2% |
| | 2. Market Value of Assets | | 710,329,822 | 1455.9% | 710,329,822 | 1506.1% |
| E. | Unfunded Actuarial Accrued Liability | | | | | |
| | (C D.1.) | \$ | 355,901,889 | 729.5% | \$ 292,005,152 | 619.1% |
| F. | Preliminary Minimum Required Contribution | | | | | |
| | 1. Total Normal Cost (including expenses) | \$ | 15,569,514 | 31.9% | \$ 15,569,514 | 33.0% |
| | 2. Amortization of Unfunded Liability | | 23,240,473 | 47.6% | 19,548,224 | 41.4% |
| | 3. Interest Adjustment | | 2,907,226 | 6.0% | 2,618,352 | 5.6% |
| | 4. Expected Service Buyback | _ | 134,174 | 0.3% | 129,701 | 0.3% |
| | 5. Total Preliminary Minimum Required Contribution | \$ | 41,851,387 | 85.8% | \$ 37,865,791 | 80.3% |
| G. | Contribution Sources for Fiscal Year Ending September 3 | 0, 20 : | 15 | | | |
| | 1. City | \$ | 36,851,800 | 75.5% | \$ 33,028,839 | 70.0% |
| | 2. State | \$ | 120,549 | 0.2% | \$ 120,549 | 0.3% |
| | 3. Member | \$ | 4,879,038 | 10.0% | \$ 4,716,403 | 10.0% |
| H. | City Contribution (Percent of Pensionable DROP payroll) | \$ | 36,851,800 | 62.0% | \$ 33,028,839 | 57.1% |
| I. | Actuarial Gains (Losses) | \$ | (1,540,235) | (3.2%) | \$ (1,540,235) | (3.3%) |
| J. | Actuarial Present Value of Vested Accrued Benefits | | | | | |
| | 1. Retired, Terminated Vested, Beneficiaries | | | | | |
| | and Disabled Receiving Benefits (including DROPs)Terminated Vested Participants Entitled to | \$ | 747,713,183 | 1532.5% | \$ 747,713,183 | 1585.3% |
| | Future Benefits and Miscellaneous | | 3,097,833 | 6.3% | 3,097,833 | 6.6% |
| | 3. Active Participants Entitled to Future Benefits4. Total Actuarial Present Value of Vested | _ | 150,758,990 | 309.0% | 150,758,990 | 319.6% |
| | Accrued Benefits | \$ | 901,570,006 | 1847.8% | \$ 901,570,006 | 1911.6% |
| K. | Unfunded Actuarial Present Value of Vested | | = = | = | | |
| | Accrued Benefits (J D.2., not less than zero) | \$ | 191,240,184 | 392.0% | \$ 191,240,184 | 405.5% |
| L. | Vested Benefit Security Ratio (D.2. ÷ J.) | | 78.8% | N/A | 78.8% | N/A |

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Comparison of Cost Data of October 1, 2012 and Updated October 1, 2013 Valuations

| | | Actuarial Valuation October 1, 2012 | lluation , 2012 | | Actuarial Impact Statement October 1, 2012 | Statement 2012 | Ē | Prior Methods and Assumptions October 1, 2013 | d Assumptions , 2013 | Ö | Current Methods and Assumptions October 1, 2013 | nd Assumptions 1, 2013 |
|--|---------------|--|--------------------|---------------|---|-------------------|----------|--|-------------------------|---------------|--|---------------------------|
| | | | Jo % | | | J0 % | | | Jo % | | | Jo % |
| | | Cost | Pensionable | | Cost | Pensionable | | Cost | Pensionable | | Cost | Pensionable |
| A. Participants | | The Carlo | 1 471011 | ŀ, | Data | 1 471011 | | Data | rayron | | DECH | rayron |
| 1. Active Employees | | 428 | N/A | | 428 | N/A | | 458 | N/A | | 458 | N/A |
| 2. Terminated Vested | | 16 | N/A | | 16 | N/A | | 15 | N/A | | 15 | N/A |
| 3. Receiving Benefits (including DROPs) | | 682 | N/A | | 682 | N/A | | 969 | N/A | | 969 | N/A |
| 4. Projected Annual Pensionable Payroll | 69 | 46,313,650 | 100.0% | 69 | 46,313,650 | 100.0% | 69 | 48,790,378 | 100.0% | 69 | 47,164,032 | 100.0% |
| 5. Projected Annual Pensionable Payroll (including DROPs) | €9 | 56,136,914 | 121.2% | 69 | 56,136,914 | 121.2% | 69 | 59,478,306 | 121.9% | 69 | 57,851,961 | 122.7% |
| B. Present Value of Future Benefits | ₩ | 1,060,686,520 | 2290.2% | | N/A | N/A | 69 | 1,096,504,276 | 2247.4% | 69 | 1,096,504,276 | 2324.9% |
| C. Total Normal Costs | €9 | 15,766,586 | 34.0% | €3 | 14,525,258 | 31.4% | €9 | 15,569,514 | 31.9% | 69 | 15,569,514 | 33.0% |
| D. Actuarial Accrued Liability (EAN) | 69 | 922,739,522 | 1992.4% | €\$ | 902,778,453 | 1949.3% | 69 | 955,238,606 | 1957.8% | 69 | 955,238,606 | 2025.4% |
| E. Smoothed Actuarial Value of Assets | 64 | 545,067,653 | 1176.9% | €4 | 545,067,653 | 1176.9% | 69 | 599,336,717 | 1228.4% | 69 | 663,233,454 | 1406.2% |
| F. Unfunded Actuarial Accrued Liability (EAN) | ₩ | 377,671,869 | 815.5% | €9 | 357,710,800 | 772.4% | 69 | 355,901,889 | 729.5% | 69 | 292,005,152 | 619.1% |
| G. City Minimum Funding Payment (% of Projected Annual Payroll including DROP) | 69 | 41,077,586 | 88.7% 73.2% | ⇔ | 35,839,777 | 77.4% | ↔ | 36,851,800 | 75.5% | €4 | 33,028,839 | 70.0% |
| H. Vested Benefit Security Ratio | | 74.6% | N/A | | 74.6% | N/A | | 78.8% | N/A | | 78.8% | N/A |

<u>Characteristics of Participants in</u> <u>Actuarial Valuation as of October 1, 2013</u>

A. Active Plan Participants Summary

| 1. Active participants fully vested | 357 |
|---|------------------|
| 2. Active participants partially vested | 0 |
| 3. Active participants non-vested | 101 |
| 4. Total active participants | 458 |
| 5. Total Annual Base Payroll | \$ 39,283,718 |
| 6. Projected Annual Base Payroll | \$ 40,658,648 |
| 7. Projected Annual Pensionable Payroll | \$ 47,164,032 |
| 8. Projected Annual Pensionable Payroll (Including DROPs) | \$ 57,851,961 |

B. Retired and Terminated Vested Participant Summary

| 1. Retired or terminated vested participants receiving | |
|--|-----|
| benefits (including DROPs) | 540 |
| 2. Terminated vested participants entitled to | |
| future benefits | 15 |
| 3. Deceased participants whose beneficiaries are | |
| receiving benefits | 98 |
| 4. Disabled participants receiving benefits | 58 |

C. Projected Annual Retirement Benefits

| 1. Retired or terminated vested receiving benefits (including DROPs) | \$ 48,736,676 |
|--|------------------|
| 2. Terminated vested entitled to future benefits | \$ 270,789 |
| 3. Beneficiaries of deceased participants | \$ 3,303,495 |
| 4. Disabled participants | \$ 3,596,407 |

Statement of Assets as of October 1, 2013

| | Assets | <u>N</u> | <u> Iarket Value</u> |
|----|--|----------|--|
| A. | Cash and Cash Equivalents | \$ | 20,000 |
| B. | General Investments | | |
| | Short Term Investments U.S. Government Securities Common Stocks Domestic Equity Fund International Equity Fund Domestic Corporate Bonds International Fixed Income Real Estate Fund Mutual Funds Self-Directed DROP Participants | \$ | 18,129,793 23,145,088 329,803,640 62,575,982 32,494,167 154,983,512 50,568,738 23,813,474 11,807,256 |
| C. | Receivables | | |
| | Accrued Interest Contributions Receivable Member Buybacks | \$ | 2,154,308 0 1,222,109 |
| D. | <u>Payables</u> | | |
| | Accounts Payable Due to Broker | \$ | 388,245 0 |
| E. | Total Assets (A. + B. + C D.) | \$ | 710,329,822 |

Reconciliation of Plan Assets

| A. Market Value of Assets as of October 1, 2012 | | | \$ 631,816,817 |
|--|----|-------------|-------------------|
| B. Receipts During Period | | | |
| 1. Contributions | | | |
| a. Member | \$ | 5,091,354 | |
| b. Buybacks | | 4,625,982 | |
| c. City | | 39,371,501 | |
| d. State (Share Plan) | | 120,549 | |
| e. Total | \$ | 49,209,386 | |
| 2. Investment Income | | | |
| a. Interest and dividends | \$ | 16,766,193 | |
| b. Realized gains | | 44,000,245 | |
| c. Unrealized gains | | 24,357,872 | |
| d. Investment expenses | | (2,910,167) | |
| e. Net investment income | \$ | 82,214,143 | |
| 3. Total receipts during period | | | \$ 131,423,529 |
| C. <u>Disbursements During Period</u> | | 2 | |
| 1. Pension payments | \$ | 45,442,156 | |
| 2. DROP distributions | | 6,475,244 | |
| 3. Contribution refunds | | 187,205 | |
| 4. Administrative expenses | | 805,919 | |
| 5. Total disbursements during period | - | | \$ 52,910,524 |
| D. Market Value of Assets as of September 30, 2013 | | | \$ 710,329,822 |
| E. Reconciliation of DROP Account Balances | | | |
| 1. DROP Accounts Balance as of October 1, 2012 | \$ | 9,408,588 | |
| 2. Benefit Payments into DROP Accounts during Year | | 8,250,776 | |
| 3. Investment Gains (Losses) during Year | | 623,136 | |
| 4. Distributions from DROP Accounts during Year | | (6,475,244) | |
| 5. DROP Accounts Balance as of September 30, 2013 | | | \$ 11,807,256 |

Development of Smoothed Value of Assets as of September 30 - Prior Method

| B. Market value beginning of year 631,816,817 C. Market value end of year 710,329,822 D. Realized and unrealized gains / (losses) 44,000,245 2. Unrealized gains / (losses) 24,357,872 3. Realized and unrealized gains / (losses) 68,358,117 2. First prior year 92,213,224 3. Second prior year 92,213,224 4. Third prior year 91,54,705 6. Total 173,527,938 F. Phase-In of realized and unrealized gains / (losses) 13,671,623 2. First prior year - 40% 36,885,290 3. Second prior year - 60% 31,63,374 4. Third prior year - 80% 31,63,374 | 68,358,117 | 711 936 93 | | |
|--|--------------|--------------|-------------|------------|
| ses) s / (losses) ns / (losses) | | K8 258 117 | | |
| | | K8 359 117 | | |
| | | K8 359 117 | | |
| | | 68 358 117 | | |
| | | 68 358 117 | | |
| | | × × × × × | | |
| | | 02 213 224 | 69 359 117 | |
| | | (17,217,915) | 92,213,224 | 68,358,117 |
| | 182,682,643 | 143,353,426 | 160,571,341 | 68,358,117 |
| % | | | | |
| % | 27,343,247 | | | |
| | | 41,014,870 | | |
| | (13,774,332) | 73,770,579 | 54,686,494 | |
| h prior year -100% | 39,329,217 | (17,217,915) | 92,213,224 | 68,358,117 |
| Total 62,534,833 | 108,226,066 | 97,567,534 | 146,899,718 | 68,358,117 |
| Smoothed value end of year 1. Preliminary total smoothed actuarial value end of year: | | | | |
| CE.6.+F.6. | | | | |
| limit: 120% of C. | | | | |
| | | | | |
| Smoothed value end of year: | | | | |
| G.1., not more than G.2., nor less than G.3. | | | | |
| Difference - market value less smoothed value 110,993,105 | | | | |
| Actuarial value rate of return 8.8% | | | * | |
| Market value rate of return 13.1% | | | | |

Development of Smoothed Value of Assets as of September 30 - Current Method

<u>Actuarial Gains (Losses) for Plan Year</u> <u>Ending September 30, 2013</u>

A. Derivation of Actuarial Gain (Loss)

| | t Particular to a second state of the second second | 0.000.000 |
|----|---|--------------------|
| | Employer normal cost previous actuarial impact statement | \$ 9,893,893 |
| | 2. Unfunded actuarial accrued liability previous actuarial impact statement | \$ 357,710,800 |
| | 3. Employer contributions previous year: | |
| | (a) City | \$ 39,371,501 |
| | (b) State | 120,549 |
| | (c) Total | \$ 39,492,050 |
| | 4. Interest on: | |
| | (a) Employer normal cost | \$ 791,511 |
| | (b) Unfunded actuarial accrued liability | 28,616,864 |
| | (c) Employer contributions | 3,159,364 |
| | (d) Net total: (a) + (b) - (c) | \$ 26,249,011 |
| | 5. Increase (decrease) due to changes in methods and assumptions | \$ (63,896,737) |
| | 6. Expected unfunded actuarial liability current year: | |
| | (1. + 2 3. + 4. + 5.) | \$ 290,464,917 |
| | 7. Actual unfunded actuarial liability current year | 292,005,152 |
| | 8. Actuarial gain / (loss): (6 7.) | \$ (1,540,235) |
| _ | | |
| В. | Approximate Portion of Gain (Loss) Due to Investments | |
| | 1. Smoothed actuarial value of assets previous year | \$ 554,476,241 |
| | 2. Contributions during period | 49,209,386 |
| | 3. Benefits, refunds and admin expenses during period | 52,910,524 |
| | 4. Expected net appreciation for period | 44,210,054 |
| | 5. Increase (decrease) due to change in method | 63,896,737 |
| | 6. Expected smoothed actuarial value assets current year: | |
| | (1. + 2 3. + 4. + 5.) | \$ 658,881,894 |
| | 7. Actual smoothed actuarial value of assets current year | \$ 663,233,454 |
| | 8. Approximate gain / (loss) due to investments: (7 6.) | \$ 4,351,560 |
| | | .,, |
| C. | Approximate Portion of Gain (Loss) due to Liabilities: (A B.) | \$ (5,891,795) |
| | | |

Amortization of Unfunded Actuarial Accrued Liability

A. <u>Unfunded Actuarial Accrued Liability</u>

| Date | Unfunded Liability | A | mortization Payment |
|-----------------|---------------------------|----|------------------------|
| October 1, 2013 | \$ 292,005,152 | \$ | 19,548,224 |
| October 1, 2014 | \$ 294,253,481 | \$ | 20,232,414 |
| October 1, 2015 | \$ 295,942,751 | \$ | 20,940,548 |
| October 1, 2016 | \$ 297,002,381 | \$ | 21,673,467 |
| October 1, 2017 | \$ 297,355,227 | \$ | 22,432,041 |
| ••• | | | |
| ••• | | | |
| October 1, 2043 | \$ 0 | \$ | 0 |

Accounting Disclosure Exhibit

| | | 10/01/2012 | | 10/01/2013 |
|---|----|-------------|--------|------------------|
| I. Number of Plan Members | | | | · |
| a. Retirees and beneficiaries receiving benefits | | 682 | | 696 |
| b. Terminated plan members entitled to but not yet receiving benefits | | 16 | | 15 |
| c. Active plan members | | 428 | | 458 |
| d. Total | | 1,126 | | 1,169 |
| II. Financial Accounting Standards Board Allocation as of October 1, 2013 | | | | |
| A. Statement of Accumulated Plan Benefits | | | | |
| 1. Actuarial present value of accumulated vested plan benefits | | | | |
| a. Participants currently receiving benefits | \$ | 713,132,257 | \$ | 747,713,183 |
| b. Other participants | | 120,906,735 | | 153,856,823 |
| c. Total | \$ | 834,038,992 | \$ | 901,570,006 |
| 2. Actuarial present value of accumulated | | | | |
| non-vested plan benefits | \$ | 30,008,206 | \$ | 7,401,076 |
| 3. Total actuarial present value of accumulated plan benefits | \$ | 864,047,198 | \$ | 908,971,082 |
| B. Statement of Change in Accumulated Plan Benefits | | | | |
| 1. Actuarial present value of accumulated plan benefits | | | | |
| as of October 1, 2012 | | | \$ | 864,047,198 |
| 2. Increase (decrease) during year attributable to: | | | | |
| a. Plan amendment | | | \$ | 0 |
| b. Change in actuarial assumptions | | | | 0 |
| c. Benefits paid including refunds | | | | (52,104,605) |
| d. Other, including benefits accumulated, increase | | | | |
| for interest due to decrease in the discount period | | | | 97,028,489 |
| e. Net increase | | | \$ | 44,923,884 |
| 3. Actuarial present value of accumulated plan benefits | | | | |
| as of October 1, 2013 | | | \$ | 908,971,082 |
| C. Significant Matters Affecting Calculations | | | | |
| 1. Assumed rate of return used in determining actuarial present values | 5 | | | 8% |
| 2. Change in plan provisions | | | | None. |
| 3. Change in actuarial assumptions and methods | | None at | fectir | ng calculations. |

Accounting Disclosure Exhibit

III. Actuarial Assumptions and Methods:

Actuarial valuation date

October 1, 2013

Actuarial cost method

Entry Age Normal

Amortization method

Level percent, closed

Remaining amortization period

23 years

Asset valuation method

5 year smoothed market

Actuarial assumptions:

Investment rate of return *

8.0%

Projected salary increases *

2.87% - 9.87%

Payroll growth

3.5%

Cost of living adjustments

1.5%, 2.0% or 2.5%

^{*} Includes inflation at 3.0%

Accounting Disclosure Exhibit

IV. Historical Trend Information

Schedule of Employer Costs (GASB No. 27)

| Fiscal Year <u>Ended</u> | nnual Pension Cost (APC) | Percentage of APC Contributed | Pension ion/(Asset) |
|--------------------------|--------------------------|----------------------------------|------------------------|
| 9/30/2011 | \$ 32,811,570 | 100% | \$ 0 |
| 9/30/2012 ¹ | \$ 36,297,459 | 100% | \$ 0 |
| 9/30/2013 ¹ | \$ 39,492,050 | 100% | \$ 0 |

V. Annual Pension Cost and Net Pension Asset (GASB No. 27)

| | | Projected |
|-------------------------------------|------------------------|------------------|
| Fiscal Year Ended | 9/30/2013 ¹ | 9/30/2014 |
| Annual Required Contribution (ARC) | \$ 39,492,050 | \$ 35,960,326 |
| Interest on Net Pension Asset (NPA) | 0 | 0 |
| Adjustment to ARC | 0 | 0 |
| APC | \$ 39,492,050 | \$ 35,960,326 |
| City and State Contributions | \$ (39,492,050) | |
| (Increase) Decrease in NPA | \$ 0 | |
| NPA (beginning of year) | 0 | |
| NPA (end of year) | \$ 0 | |

¹ As reported in the City's Comprehensive Annual Financial Report (CAFR)

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Schedule of Funding Progress (Dollar Amounts in Thousands)

VI. Schedule of Funding Progress (GASB No. 27)

| | | Sr | Smoothed | Actuarial Accrued | Accrued | ר | Unfunded | | Pr | Projected | UAAL as a |
|----------------|-----|----------------|------------|-------------------|------------|---------------|----------|----------|-----|----------------|----------------------|
| Achierial | | A Volum | Actuarial | Liability (EAN) | (EAN) | | AAL | Funded | Per | Pensionable | Percentage |
| Valuation Date | | v alu | (a) | (A) | (L) | | (b-a) | (a/b) | 9 | rayroll (c) | of Fayroll ((b-a)/c) |
| 10/01/2010 | - | 6/3 | 525,709 | €9 | 817,641 | €9 | 291,932 | 64.3% \$ | €9 | 49,719 | 587.2% |
| 10/01/2011 | - | ⇔ | 531,821 | € | 871,119 | €9 | 339,297 | 61.1% | €9 | 49,187 | %8.689 |
| 10/01/2012 | - | 69 | 545,068 | \$ | 902,778 | €9 | 357,711 | 60.4% | €9 | 46,314 | 772.4% |
| 10/01/2013 | 2,4 | ∽ | 599,337 | 6 9 | 955,239 | ÷ | 355,902 | 62.7% \$ | €9 | 47,164 | 754.6% |
| 10/01/2013 | 3,4 | 69 | 663,233 \$ | | 955,239 \$ | 69 | 292,006 | 69.4% | €9 | 47,164 | 619.1% |
| A - 1 | | ζ | • | <u>;</u> | | | | | | | |

¹ As shown in the City's Comprehensive Annual Financial Report (CAFR)

² Prior to update in actuarial method

³ After update in actuarial method

⁴ Includes DROP accounts in assets and liabilities

Accounting Disclosure Exhibit

VII. Net Pension Liability and Related Ratios (GASB No. 67)

| | Measurement date | | Projected 9/30/2014* |
|----|--|-----|------------------------------|
| Α. | Total Pension Liability | | |
| | Service Cost | \$ | 14,763,595 |
| | Interest | • | 75,332,539 |
| | Benefit Changes | | 0 |
| | Difference Between Actual and Expected Experience | | 7,685,043 |
| | Assumption Changes | | 0 |
| | Benefit Payments, including Refunds of Member Contributions | | (56,690,935) |
| | Net Change in Total Pension Liability | | 41,090,242 |
| | Total Pension Liability (TPL) - (beginning of year) | | 947,553,563 |
| | Total Pension Liability (TPL) - (end of year) | \$ | 988,643,805 |
| В. | Plan Fiduciary Net Position | | |
| | Contributions - City and State | \$ | 35,960,326 |
| | Contributions - Member | Ψ | 4,716,403 |
| | Net Investment Income | | 56,153,581 |
| | Benefit Payments, including Refunds of Member Contributions | | (56,690,935) |
| | Administrative Expenses | | (805,919) |
| | Other | | 0 |
| | Net Change in Plan Fiduciary Net Position | - 6 | 39,333,456 |
| | Plan Fiduciary Net Position - (beginning of year) | | 710,329,822 |
| | Plan Fiduciary Net Position - (end of year) | \$ | 749,663,278 |
| C. | Net Pension Liability (NPL) - (end of year): (A) - (B) | | 238,980,527 |
| D. | Plan Fiduciary Net Position as a Percentage of TPL: (B) / (A) | | 75.83 % |
| E. | Covered Employee Payroll** | \$ | 57,851,961 |
| F. | NPL as a Percentage of Covered Employee Payroll: (C) / (E) | | 413.09 % |
| G. | Notes to Schedule: Valuation Date Update procedures were used to roll forward the total pension liability to the See Table X., Item O. for assumption and/or method changes during the year. | | 10/01/2013 asurement date |

^{*} Projected - actual amounts will be available after fiscal year end

^{**} Projected pensionable payroll including DROP payroll

Accounting Disclosure Exhibit

VIII. Schedule of the Employer's Net Pension Liability (GASB No. 67)

| Net Pension Liability as a % of Covered Payroll | 413.09% |
|---|----------------|
| Covered Payroll** | \$ 57,851,961 |
| Plan Net Position as a % of Total Pension Liability | 75.83% |
| Net Pension Liability | \$ 238,980,527 |
| Plan Net Position | \$ 749,663,278 |
| Pension Liability | \$ 988,643,805 |
| Measurement Date | 9/30/2014* |

^{*} Projected - actual amounts will be available after fiscal year end ** Projected pensionable payroll including DROP payroll

Accounting Disclosure Exhibit

IX. Schedule of Employer Contributions (GASB No. 67)

| Fiscal Year End | Actuarially Determined Contribution | Actual Contribution | D | ntribut eficien Excess | су | Covered Payroll** | Actual Contribution as a % of Covered Payroll |
|--------------------|-------------------------------------|------------------------|----|------------------------------|----|-------------------|---|
| 9/30/2014* | \$ 35,960,326 | \$ 35,960,326 | \$ | | 0 | \$ 57,851,961 | 62.16% |

^{*} Projected - actual amounts will be available after fiscal year end

X. Notes to Schedule of Contributions (GASB No. 67)

| Val | uation | Date |
|------|--------|---------|
| V 21 | шаши | 1/2116: |

Actuarially determined contributions are calculated as of October 1st one year prior the fiscal year end in which contributions are reported.

Methods and Assumptions Used to Determine Contribution Rates:

| Actuarial Cost Method | Entry Age Normal |
|----------------------------|-----------------------------|
| Amortization Method | Level Percentage, Closed |
| Amortization Period | 30 years |
| Asset Valuation Method | 5-year smoothed market |
| Inflation | 3.00% |
| Payroll Growth | 3.50% |
| Salary Increases | 2.87% - 9.87% |
| Investment Rate of Return | 8.00% |
| Retirement Age | Experience-based table of a |
| | _ |

rates that are specific to the type of eligibility

condition

Mortality For healthy participants, the RP-2000 Combined Mortality Table with

> Blue Collar Adjustment projected 15 years from valuation date for preretirement mortality and 7 years from valuation date for post-retirement

mortality was used.

For disabled participants, the RP-2000 Disabled Mortality Table was

used.

Cost-of-Living Increases

1.5%, 2.0% or 2.5%

Other Information:

Notes See Table X., Item O. for assumption and/or method changes during the

year.

No benefit changes affecting calculations during the year.

^{**} Projected pensionable payroll including DROP payroll

Accounting Disclosure Exhibit

XI. Discount Rate (GASB No. 67)

A discount rate of 8.00% was used to measure the total pension liability. This discount rate was based on the expected rate of return on Fund investments of 8.00%. The projection of cash flows used to determine this discount rate assumed member contributions will be made at the current contribution rate and employer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on Fund investments was applied to all periods of projected benefit payments to determine the total pension liability.

XII. Sensitivity of the Net Pension Liability to the Discount Rate Assumption* (GASB No. 67)

Measurement date: 9/30/2014 *

| | | Current | |
|-----------------------|----------------|----------------|----------------|
| | 1% Decrease | Discount Rate | 1% Increase |
| Discount Rate | 7.00% | 8.00% | 9.00% |
| Net Pension Liability | \$ 362,176,402 | \$ 238,980,527 | \$ 137,611,355 |

^{*} Projected - actual amounts will be available after fiscal year end

Outline of Principal Provisions of the Retirement Plan

A. Relevant Provisions:

The Plan was created under Chapter 23414, Laws of Florida, Special Act of 1945, as amended by Ordinance No. 2013-3817 adopted September 30, 2013.

B. Eligibility Requirements:

Any full-time employee of the City who is certified as a Firefighter or Police Officer as a condition of employment.

C. Membership Tiers:

- Tier 1 Members hired prior to July 14, 2010
- Tier 2 Members hired on or after July 14, 2010 but prior to September 30, 2013
- Tier 3 Members hired on or after September 30, 2013

D. Credited Service:

All periods of employment as an Employee for which contributions have been made to the Fund together with all service in the uniformed services of the United States required to be included.

E. Pre-Employment Service:

Effective September 30, 2013 members with at least 5 years of service may contribute an additional amount of 10% for those hired prior to September 30, 2013 and 10.5% for those hired on or after September 30, 2013 to receive credit for pre-employment military service. A member may purchase up to 2 total years of additional service credit at the 3% accrual rate for time spent on active military duty. The total of all combinations of pre-employment benefit purchased cannot exceed a 12% increase in accrual.

Pre-employment benefit service must be purchased within 36 months following September 30, 2013, or upon completion of 5 years of creditable pension service under the pension plan, whichever occurs later.

Effective September 30, 2013, members will no longer be able to purchase an increase in benefit multiplier or pre-employee public safety service credit as a Police Officer or Firefighter.

Outline of Principal Provisions of the Retirement Plan

F. Pensionable Pay:

Salary is defined as base pay, longevity pay, overtime, shift differential and extra compensation allowance such as uniform allowance and any pays which are negotiated as pensionable. Effective July 14, 2010, off-duty pay is pensionable for any member who is eligible for overtime and receives off-duty compensation through the City. Overtime is limited to 300 hours a year.

- 1. Overtime and Off-Duty pay included in pension computation for Police Officers:
 - Off-Duty and overtime pay not exceeding 300 hours per calendar year is limited in each year to an amount that is equal to 11% of highest annualized pay rate for the same salary rank that the member is in at time of retirement. The 11% limitation shall not apply to any member who holds the rank of sergeant or lieutenant on September 30, 2013, or any Police Officer promoted to the rank of sergeant prior to the date the 2013 Certified Police Sergeant Promotional Register expires in 2015.
- 2. Overtime and Off-Duty pay included in pension computation for Firefighters:
 - Off-Duty and overtime pay not exceeding 300 hours per calendar year is limited in each year to an
 amount that is equal to 11% of highest annualized pay rate for the same salary rank that the
 member is in at time of retirement. For Firefighters who are eligible for overtime pay and who
 retire on or after September 30, 2010, overtime, off-duty and unused sick and / or vacation leave
 time can be used to reach the 11% limit.

G. Final Average Monthly Earnings (FAME):

Tier 1 and eligible to retire prior to September 30, 2015 - the greater of the average of the 2 highest paid years prior to date of retirement or the 2 last paid years after taking into consideration the overtime limit.

Tier 1 and eligible to retire on or after September 30, 2015 - the greater of the average of the 3 highest paid years prior to date of retirement or the 3 last paid years after taking into consideration the overtime limit.

Tier 2 - the greater of the average of the 3 highest paid years prior to date of retirement or the 3 last paid years after taking into consideration the overtime limit.

Tier 3 - the greater of the average of the 5 highest paid years prior to date of retirement or the 5 last paid years after taking into consideration the overtime limit.

Outline of Principal Provisions of the Retirement Plan

H. Normal Retirement:

1. Eligibility:

Tier 1 and eligible to retire prior to September 30, 2013 - the earlier of attainment of age 50 or Rule of 70

Tier 1 and eligible to retire on or after September 30, 2013 - the earlier of attainment of age 50 or Rule of 70 (must attain age 47)

Tier 2 and Tier 3 - the earlier of attainment of age 50 or Rule of 70 (must attain age 48)

2. Benefit:

Tier 1 and eligible to retire prior to September 30, 2013:

3% x FAME x Credited Service up to 15 years + 4% x Credited Service after 15 years Benefit shall not exceed 90% of FAME.

Tier 1 and eligible to retire on or after September 30, 2013 but prior to September 30, 2015: 3% x FAME x Credited Service up to 20 years + 4% x Credited Service after 20 years Benefit shall not exceed 85% of FAME (exception if exceeded 85% as of September 30, 2013).

Tier 1 and eligible to retire on or after September 30, 2015, Tier 2 and Tier 3: 3% x FAME x Credited Service up to 20 years + 4% x Credited Service after 20 years Benefit shall not exceed 85% of FAME.

A member's benefit multiplier for credited service earned before October 1, 2013 shall not be reduced.

I. Deferred Retirement:

1. Eligibility:

Any first day of a month past Normal Retirement Date.

2. Benefit:

Benefit calculated as for Normal Retirement based upon service and pay to Deferred Retirement Date.

J. Disability Retirement:

1. Eligibility:

Totally and permanently disabled meaning incapacity to perform regular duty as Firefighter or Police Officer (and completion of at least 5 years of Credited Service for non-service incurred disability).

2. Benefit:

Accrued benefit (minimum of 85% of current salary at time of disability for service incurred disability).

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Outline of Principal Provisions of the Retirement Plan

K. Death Benefit:

1. Service Incurred:

Greater of accrued benefit and 85% of compensation payable as a monthly benefit to the widow until death or remarriage, to a Domestic Partner until death, marriage or entry into another Domestic Partnership, to unmarried children in equal shares until age 18 (until age 22 if a full-time student or until recovery from disability if disabled), or to dependent parents in equal shares.

2. Non-Service Incurred:

For members with at least 5 years of service, accrued benefit is payable for the first 12 months after death and 75% of the accrued benefit is payable thereafter (with a minimum benefit of 25% of average monthly salary); Benefits are payable to the widow until death or remarriage, to a Domestic Partner until death, marriage or entry into another Domestic Partnership, to unmarried children in equal shares until age 18 (until age 22 if a full-time student or until recovery from disability or until marriage if disabled), or to dependent parents in equal shares. However, if the member has been married for less than 10 years, benefits are payable to the spouse only for the life expectancy of the deceased member at time of death.

L. Withdrawal Benefit:

1. Eligibility:

Any age prior to 50 with at least 5 years of service for members who terminate employment on or after September 30, 2013.

2. Benefit:

Return of employee contributions or accrued benefit. If a member withdrawals with less than 10 years of service and passes away prior to the normal retirement date the return of employee contributions is the only benefit.

M. Employee Contributions:

10% of salary per year (on a pre-tax basis) for members hired prior to September 30, 2013 and 10.5% of salary per year (on a pre-tax basis) for members hired on or after September 30, 2013; If contributions are refunded to the member or to his beneficiaries, then interest is credited at the rate of 3% per annum.

Outline of Principal Provisions of the Retirement Plan

N. Normal Form of Payment of Retirement Income:

For members except those retiring prior to November 5, 2003, the normal form of payment is a 75% joint and survivor annuity with a specified beneficiary as provided under the plan. The specified beneficiary will receive a survivor annuity equal to 100% of the total benefit for one year following the death of the member and thereafter the greater of 75% of the total benefit or 25% of the average monthly salary for the two highest paid years. However, upon death, if the member has been married for less than 10 years, the survivor annuity is payable only for the life expectancy of the deceased member at time of death.

The members may also elect the actuarial equivalent of the 10 year certain and life annuity, with a designated beneficiary, any of the following optional forms of payment:

- 75% joint and contingent survivor annuity with a designated beneficiary
- 66 3/3% joint and contingent annuity with a designated beneficiary
- 50% joint and contingent annuity with a designated beneficiary
- 25% joint and contingent annuity with a designated beneficiary
- 10 year certain and life annuity with a designated beneficiary

Members who retired prior to November 5, 2003 were subject to different normal and optional forms of payment.

O. Deferred Retirement Option Program (DROP):

Police Officers and Firefighters are eligible to participate in a Deferred Retirement Option Program (DROP) upon meeting any one of the following criteria:

- the attainment of age 50 or
- the sum of the member's age and creditable service equal to at least 70 (minimum age may apply)

Operations of the DROP:

- The member's monthly retirement benefit, based on final average earnings and service, will be calculated as of the date prior to them entering the DROP.
- The member's monthly pension will be deposited into the selected investment vehicles.
- The member will cease to accrue additional pension benefits (with the exception of the COLA under the pension plan).
- The member will no longer be eligible for Disability or Service Connected Death benefits from the Pension Plan.
- Member contributions to the Pension Plan will cease upon entering the DROP.

Outline of Principal Provisions of the Retirement Plan

- Upon entering the DROP, the member will select the length of the DROP period. The maximum period of participation in the DROP is 36 months for members who enter the DROP prior to September 1, 2012 and 60 months for members who enter the DROP on or after September 1, 2012. Notwithstanding the above, participation may not continue beyond the date when the member's combined years of creditable service and time in the DROP equals 352 months for members who enter the DROP prior to September 1, 2012 and 408 for members who enter the DROP on or after September 1, 2012.
- The member will not have access or be able to borrow against any of the funds accumulated in their DROP account.
- The member may sever employment with the City at any time during the DROP period. Such separation will terminate their participation in the DROP.
- No payment will be made from the DROP account until the member severs employment with the City.
- Following severance of employment, the funds in the DROP will be paid under the options the member selected. The member will also start receiving their monthly pension which was previously being deposited in the DROP.
- A 2.5% COLA (1.5% per year for participants hired on or after July 14, 2010) is paid annually on the anniversary date of the member's retirement. For members who enter the DROP after September 1, 2012 and before September 30, 2013 no cost of living adjustment for the third and fourth annual anniversary date, if the member participates in the DROP for six months or longer. Any member who exits the DROP within 6 months following the date of DROP entry, shall be eligible for the 2.5% COLA annually on the anniversary date of the member's retirement.

P. Cost-of-Living Adjustment:

Effective October 1, 2010, benefits are increased by 2.5% per year (1.5% per year for participants hired on or after July 14, 2010), compounded annually, on the anniversary date of each member's retirement. Members whose grandfathered Base Plan benefit is greater than the benefit otherwise provided by this plan will receive the applicable cost-of-living adjustment on that basis (2% a year beginning the October three years after retirement) until such time as the benefit from this plan with 2.5% cost-of-living exceeds that comparable grandfathered Base Plan benefit.

For members retired prior to October 1, 2010, benefit increases occur on the first of October each year.

Q. Changes Since Previous Actuarial Impact Statement

None.

Actuarial Assumptions and Actuarial Cost Methods <u>Used in the Valuation</u>

A. Mortality

For healthy participants, the RP-2000 Combined Mortality Table with Blue Collar Adjustment projected 15 years from valuation date for pre-retirement mortality and 7 years from valuation date for post-retirement mortality with Scale AA was used.

For disabled participants, the RP-2000 Disabled Mortality Table was used without projection for future mortality improvement.

B. Investment Return

8.0%, compounded annually, net of investment expenses.

C. Expenses

Prior year's actual administrative expenses.

D. Employee Withdrawal Rates

Representative values of the assumed annual rates of withdrawal among members in active service are as follows:

| Age | Withdrawal <u>Rate</u> | Age | Withdrawal <u>Rate</u> |
|-----|---------------------------|-----|---------------------------|
| 20 | 0.50% | 35 | 1.50% |
| 25 | 1.00% | 40 | 0.75% |
| 30 | 1.25% | 45 | 025% |

E. Disability Rates

Representative values of the assumed annual rates of disability among members in active service are as follows:

| | Disability | | Disability |
|-----|------------|-----|------------|
| Age | Rates | Age | Rate |
| 20 | 0.0007 | 45 | 0.0058 |
| 25 | 0.0011 | 50 | 0.0099 |
| 30 | 0.0016 | 55 | 0.0142 |
| 35 | 0.0022 | 60 | 0.0200 |
| 40 | 0.0032 | 64 | 0.0269 |

55% of disabilities are assumed to be ordinary - 45% accidental.

Actuarial Assumptions and Actuarial Cost Methods <u>Used in the Valuation</u>

F. Salary Increase Factors

Representative values of the assumed annual rates of future salary increase are as follows:

| The state of the s | Salary | | Salary |
|--|----------|-----|----------|
| Age | Increase | Age | Increase |
| 20 | 5.88% | 45 | 4.88% |
| 25 | 9.89% | 50 | 4.88% |
| 30 | 8.89% | 55 | 4.88% |
| 35 | 5.88% | 60 | 3.88% |
| 40 | 4.88% | 64 | 2.88% |

The average assumed salary increase rates shown above are reduced by the expected cost of living increases of 2.18% for FY 2014 and increased by a 3.0% cost of living increase in FY 2015.

G. Payroll Increase Assumption

The aggregate compensation used to compute the accrued liability contribution rate was assumed to increase at a rate of 3.50% per year.

H. Loadings for Contingencies

Compensation: Salary rates have been increased by 16.00% to load for overtime and other pays.

Pre-Employment Service: A City contribution of 0.275% of loaded compensation is assumed sufficient to provide for the purchase (or *buyback*) of pre-employment service by the membership.

I. Loading for Projected Pensionable Payroll

The Projected Base Pay is loaded by 16.00% to estimate the projected pensionable payroll used to determine expected member contributions.

J. Marital Assumptions

- 1. 77% of members are assumed married or entitled to benefits for dependents, including registered domestic partners.
- 2. Male spouses are assumed to be three years older than female spouses.

Actuarial Assumptions and Actuarial Cost Methods <u>Used in the Valuation</u>

K. Retirement

All members are assumed to retire at age 50 with 26.25 years of service, but not later than age 65. Members under age 50 meeting the Rule of 70 are assumed to retire at the rate of 40% per year. Otherwise, retirement is assumed to occur in accordance with the following rates:

| | Rate of Retirement | | |
|--------------|--------------------|---------------------------|--|
| Service | Meeting Rule of 70 | Not Meeting Rule of 70 | |
| Less than 20 | 20% | 2% | |
| 20 | 30% | 5% | |
| 21 | 50% | 10% | |
| 22 | 30% | 10% | |
| 23 | 30% | 20% | |
| 24 | 45% | 60% | |
| 25 | 65% | 60% | |
| 26 | 100% | 100% | |
| More than 26 | 100% | 100% | |

L. DROP Assumption

It is assumed that upon retirement 80% of all active participants will participate in the DROP.

M. Smoothed Asset Valuation Method

The method used for determining the smoothed actuarial value of assets phases in the deviation between the expected and actual return on assets at the rate of 20% per year. The smoothed actuarial value of assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the fair market value of plan assets and whose upper limit is 120% of the fair market value of plan assets.

Actuarial Assumptions and Actuarial Cost Methods <u>Used in the Valuation</u>

N. Actuarial Cost Method

Normal Retirement, Termination, Disability, and Death Benefits: Entry-Age-Actuarial Cost Method.

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his age at hire to his assumed retirement age to fund his estimated benefits, assuming the Plan had always been in effect. The normal cost for the Plan is the sum of such amounts for all employees. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the Plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the smoothed actuarial value of assets of the Plan.

O. Changes Since Previous Actuarial Impact Statement

Asset Valuation Method was:

Actuarial value of assets is equal to the market value of assets adjusted to reflect a five-year phase-in of the net capital gains or losses. At October 1, 2005, the "fresh start method" using the current market value of assets and starting a new five year phase-in of realized and unrealized gains and losses was implemented, recognizing one year of asset performance in the actuarial value of assets.

Loading for Projected Pensionable Payroll was:

The Projected Base Pay was loaded by 20.00% to estimate the projected pensionable payroll used to determine expected member contributions.

Assumption Change History

A. Effective October 1, 2002:

The actuarial cost method was changed from frozen initial liability to entry age.

The amortization of the unfunded accrued liability was changed from level dollar to level percentage of pay, with aggregate payroll assumed to increase at 3.50% per year.

B. Effective October 1, 2005:

The "fresh start" method was applied to the actuarial value of assets to begin a new five-year phasein of realized and unrealized gains and losses.

The retirement rates were increased to reflect retirement experience for participants meeting the age 50 and "Rule of 70" eligibility criteria.

The loadings for contingencies and pre-employment service were increased from 5.00% to 7.00% and from 4.50% to 5.50% respectively.

C. Effective October 1, 2006:

The actuarial valuation system used by Buck Consultants was upgraded effective October 1, 2006. The gain resulting from this upgrade was amortized over 30 years.

D. Effective October 1, 2008:

The interest rate used to calculate all liabilities was reduced to 8.40% from 8.50%.

The salary scale used to project future pay increases was reduced by 50 basis points at each age to reflect the current and projected economic climate.

The loadings for contingencies were increased by 100 basis points (50 basis points for salary rates and 50 basis points for buybacks).

The retirement assumption was updated to reflect an increase in the level of retirements starting at age 45.

E. Effective October 1, 2009:

The interest rate used to calculate all liabilities was reduced from 8.40% to 8.30%.

The mortality rates were changed from the 1983 Group Annuity Mortality Table to the RP-2000 Combined Mortality Table with a blue collar adjustment for healthy lives and the RP-2000 Disabled Mortality Table for disabled participants.

A load of 20% was added to the projected base payroll to estimate the projected pensionable payroll used to determine the expected member contributions.

Assumption Change History

E. Effective October 1, 2009 (cont'd):

An experience study was performed on the plan over the 5 year period October 1, 2003 through October 1, 2008 and the following assumptions were changed to more accurately reflect the plans experience:

- Retirement Rates: The retirement assumption was changed to reflect the results of the experience study.
- Withdrawal Rates: The withdrawal assumption was changed to reflect the results of the experience study.
- Salary Increase Rates: The salary increase assumption was changed to an average increase of 3.83% for plan year 2009 to reflect the freeze on COLA for the plan year and to an average increase of 6.00% for all subsequent plan years.
- Load for Overtime and Other Pays: The load for overtime and other pays was changed from 7.50% to 16.00% to reflect the results of the experience study.

F. Effective October 1, 2010:

The interest rate used to calculate all liabilities was reduced from 8.30% to 8.20%.

The freeze on the cost of living increase component of the salary scale was extended to March 31, 2012.

G. Effective October 1, 2011:

The interest rate used to calculate all liabilities was reduced from 8.20% to 8.10%.

The mortality tables for healthy pre and post retirement participants was projected 15 and 7 years respectively from the valuation date to reflect mortality improvements.

The contingency compensation load for overtime and other pays was increased from 16% to 18% to account for the expected increase in pensionable pay due to the inclusion of off duty pay in the computation of pensionable pay.

H. Effective October 1, 2012:

The interest rate used to calculate all liabilities was reduced from 8.10% to 8.00%.

The expected salary increases for FY2013 and 2014 were reduced by 2.17% to reflect a freeze in the cost of living increases and increased by 3.0% to reflect a 3.0% cost of living increase in FY2015.

Assumption Change History

H. Effective October 1, 2012 (cont'd):

The contingency compensation load for overtime and other pays was decreased from 18% to 16% to account for the expected decrease in pensionable pay due to the cap on overtime hours in the computation of pensionable pay.

The contingency pre-employment service load was decreased from 6.000% to 0.275% to account for the elimination of certain buybacks.

The expected salary increases were adjusted to account for the extension of ranges for Firefighter I, Police Officer, Sergeant of Police and Police Lieutenant effective April 1, 2015.

I. Effective October 1, 2013:

The asset valuation method was updated to phase in the deviation between the expected and actual return on assets at the rate of 20% per year - further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the fair market value of plan assets and whose upper limit is 120% of the fair market value of plan assets.

The load for projected pensionable payroll was decreased from 20% to 16% to account for the expected decrease in pensionable pay due to the cap on overtime hours in the computation of pensionable pay.

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Distribution by Attained Age Groups and Service Groups as of October 1, 2013

Active Firefighters

| ! | 8_0 | CON | COMPLETED YEARS OF SERVICE | RS OF SER | VICE | 20 & Origin | Total |
|--|-----|-------|--|------------------|---|-------------|-------|
| <u> </u> | | 10-14 | <u>81-C1</u> | 10-07 | 67-07 | 30 & Over | lota |
| i , | | | ľ | • | ı | 1 | 7 |
| ∞ | | • | 1 | • | ı | 1 | 29 |
| 18 | | 6 | ı | 1 | 1 | 7 1 | 42 |
| 12 | | 14 | ı | • | ı | 1 | 30 |
| В | | 10 | 5 | 2 | ı | | 23 |
| 1 | | 10 | 10 | , | 1 | 17 | 22 |
| , | | 3 | 4 | 1 | ı | 1 | 7 |
| • | | | | 1 | ì | 1 | - |
| 1 | | 1 | 73 | 1 | 1 | 1 | 0 |
| 1 | | | 1 | 1 | • | | 0 |
| 42 | | 46 | 20 | 2 | 0 | 0 | 156 |
| Average Attained Age Average Hire Age Average Base Pay Percent Female | | | 10/01/2012 N/A N/A \$ 91,180 N/A | | 10/01/2013 36.99 years 27.89 years \$ 94,067 6.4% | | |

Gabriel Roeder Smith & Company

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Distribution by Attained Age Groups and Service Groups as of October 1, 2013

Active Police Officers

| | Total | _, m | 25 | 4 | 53 | 93 | 64 | 16 | 4 | 0 | 0 | 302 | |
|-----------------------------|------------|----------------|-------|-------|-------|-------|----------|-------|-------|-------|-----------|-------|--|
| | 30 & Over | | • | • | • | 1 | <u>.</u> | - | • | • | r | 0 | |
| VICE | 25-29 | • | · | • | • | • | e* | | | • | i i | 0 | 10/01/2013 40.45 years 28.71 years \$ 81,488 13.2% |
| RS OF SER | 20-24 | | • | | • | 2 | 6 | 3 | • | 8 | 1 | 14 | |
| COMPLETED VEARS OF SERVICE. | 15-19 | • | 1 | 40 | 7 | 30 | 31 | 5 | 7 | • | 1 | 70 | 10/01/2012 N/A N/A \$ 79,218 N/A |
| MOD | 10-14 | 1 , | 1 | ĸ | 16 | 37 | 15 | 7 | 7 | | 1 | 80 | |
| | <u>5-9</u> | 1 | 10 | 26 | 22 | 17 | ∞ | | 1 | ı | | 83 | ined Age Age Pay |
| | 0-4 | - E | 15 | 15 | 13 | 7 | - | 1 | • | • 19 | ı | 55 | Average Attained Age Average Hire Age Average Base Pay Percent Female |
| Attained | Age Group | Under 25 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65 & Over | TOTAL | |

Gabriel Roeder Smith & Company

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Distribution by Attained Age Groups and Service Groups as of October 1, 2013

All Active Members

| Total | S | 54 | 98 | 83 | 116 | 98 | 23 | 3 | 0 | 0 | 458 | |
|--|----------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|--|
| 30 & Over | ı | | • | | • | 1 | | t | ı | | 0 | |
| (VICE | | • | • | ı | ı | ı | î | ı | 1 | | 0 | 10/01/2013 39.27 years 28.43 years \$ 85,772 10.9% |
| 4KS OF SER 20-24 | = 1 | į | ı | ı | 4 | 6 | 8 | F | ı | | 16 | |
| COMPLETED YEAKS OF SERVICE- 10-14 15-19 20-24 25- | • | t | ı | 7 | 35 | 41 | 6 | ĸ | ı | | . 06 | 10/01/2012 39.70 years 28.70 years \$ 83,075 N/A |
| 10-14 | • | ı | 12 | 30 | 47 | 25 | 10 | 7 | ı | = 1, | 126 | |
| 5-9 | • | 18 | 44 | 34 | 20 | 6 | 1 | 1 | 1 | 1 | 125 | ained Age e Age e Pay ale |
| 0-4 | 8 | 36 | 30 | 17 | 10 | 7 | - | | | 1 | 101 | Average Attained Age Average Hire Age Average Base Pay Percent Female |
| Age Group | Under 25 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 | 60-64 | 65 & Over | TOTAL | |

Gabriel Roeder Smith & Company

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Statistics for Participants Entitled to Deferred Benefits and Participants Receiving Benefits

A. Entitled to Deferred Benefits*

| Current Age <u>Group</u> | Count | Anr | Total nual Benefit | verage ual Benefit |
|-----------------------------|------------|-----|-----------------------|-----------------------|
| Less than 40 | 3 | \$ | 103,583 | \$ 34,528 |
| 40-44 | 1 | | 31,308 | 31,308 |
| 45-49 | * 4 | | 106,187 | 26,547 |
| 50-54 | 1 | | 29,711 | 29,711 |
| 55-59 | - | | - | |
| 60-64 | - | | _ | - |
| 65 & Over | | | _ | - |
| TOTAL | 9 | \$ | 270,789 | \$ 30,088 |

^{*} Excludes 6 dormant members

B. Receiving Benefits (including DROPs)

| Current Age <u>Group</u> | <u>Count</u> | An | Total nual Benefit | Average ual Benefit |
|-----------------------------|--------------|----|-----------------------|------------------------|
| Less than 50 | 52 | \$ | 5,491,248 | \$ 105,601 |
| 50-54 | 126 | | 13,005,199 | 103,216 |
| 55-59 | 129 | | 12,023,992 | 93,209 |
| 60-64 | 102 | | 7,989,705 | 78,330 |
| 65-69 | 83 | | 6,265,312 | 75,486 |
| 70-74 | 57 | | 4,414,210 | 77,442 |
| 75 & Over | 147 | | 6,446,912 | 43,857 |
| TOTAL | 696 | \$ | 55,636,578 | \$ 79,938 |

Reconciliation of Employee Data

| A. | Active Participants | | |
|----|---|-----|----|
| | 1. Active participants previous year | 423 | 8 |
| | 2. Retired during year | (2 |)_ |
| | 3. Entered DROP | (13 | - |
| | 4. Died during year | 0 | - |
| | 5. Disabled during year | (2 |) |
| | 6. Terminated during year | (2 | - |
| | 7. New active participants | 47 | |
| | 8. Rehired during year | 3 | |
| | 9. Dormant during the year | (2 |) |
| | 10. Data Correction | 1 | |
| | 11. Active participants current year | 458 | 3 |
| B. | Participants Receiving Benefits | | |
| | 1. Participants receiving benefits previous year | 603 | 5 |
| | 2. New retired participants | 2 | |
| | 3. New terminated vested receiving benefits | 0 | |
| | 4. New disabled receiving benefits | 2 | |
| | 5. New beneficiaries receiving benefits | 8 | |
| | 6. Former DROPs now receiving benefits | 21 | |
| | 7. Died or ceased payment during year | (12 | 2) |
| | 8. Data Correction | 1 | |
| | 9. Retired or terminated vested receiving benefits current year | 627 | 7 |
| C. | DROP Participants | | |
| | 1. DROP participants previous year | 77 | |
| | 2. Died during year | 0 | |
| | 3. Became disabled during year | 0 | |
| | 4. Employment terminated and retired during year | (21 |) |
| | 5. Entered DROP during year | 13 | |
| | 6. DROP participants current year | 69 | |
| D. | Terminated Vested Participants Entitled to Future Benefits | | |
| | 1. Terminated vested entitled previous year | 16 | |
| | 2. Died during year | 0 | |
| | 3. Commenced receiving benefits during year | 0 | |
| | 4. Rehired during the year | (3) |) |
| | 5. New terminated vested | 3 | |
| | 6. Terminated vested paid lump sum | (1) |) |
| | 7. Terminated vested entitled current year | 15 | |

Projected Retirement Benefits

| Fiscal Year | | ojected Total inual Payout |
|-------------|---|-------------------------------|
| 2014 | | \$ 56,690,935 |
| 2015 | | \$ 57,981,129 |
| 2016 | * | \$ 60,190,730 |
| 2017 | | \$ 62,497,542 |
| 2018 | | \$ 64,938,766 |
| 2019 | | \$ 68,078,734 |
| 2020 | | \$ 71,105,182 |
| 2021 | | \$ 74,217,168 |
| 2022 | | \$ 77,205,202 |
| 2023 | | \$ 80,214,419 |
| | | |

The above projected payout of Plan benefits during the next ten years is based on assumptions involving all decrements. Actual payouts may differ from the above estimates depending upon the death, salary and retirement experience of the Plan. However, since the projected payment is recomputed each valuation date, there is an automatic correction to the extent that actual experience varies from expected experience.

Analysis of Investment Yield as of October 1, 2013

This Table sets forth the results of an analysis made of investment yields on the assets held under the City Pension Fund for Firefighters and Police Officers in the City of Miami Beach.

The basic sources for this analysis were the Statements produced by the Plan Auditors.

The basic data was initially checked for internal consistency. Since no difficulties were encountered with the data, yield rates were calculated directly from the transaction information submitted. A summary of the transaction information is set forth on the following page.

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Summary of Transaction Information

| Smoothed | Actuarial | Value ³ | 663,233,454 | 545,067,653 | 531,821,181 | 525,709,407 | 517,602,834 | 507,363,812 | 495,993,903 | 470,603,144 | 457,680,582 | 418,089,222 | 410,423,595 |
|----------|----------------|----------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | ₩ | | | | | | | | | | |
| | State | Contributions | \$ 120,549 | 120,549 | 120,549 | 120,549 | 120,549 | 120,549 | 120,549 | 120,549 | 120,549 | 107,000 | 0 |
| | City | Contributions | \$ 39,371,501 | 36,176,910 | 32,691,021 | 23,283,269 | 20,039,446 | 17,497,496 | 15,110,868 | 14,481,287 | 11,857,606 | 9,387,091 | 8,577,326 |
| | Employee | Contributions ² | \$ 9,717,336 | 7,504,966 | 5,783,503 | 5,989,852 | 6,542,597 | 5,577,298 | 5,194,282 | 4,915,270 | 4,982,579 | 4,588,390 | 4,437,529 |
| | Administrative | Expenses | \$ 805,919 | 859,125 | 971,906 | 697,141 | 767,484 | 641,844 | 646,588 | 633,113 | 581,953 | 564,532 | 521,173 |
| | Benefits | Paid | 52,104,605 | 48,725,783 | 44,934,423 | 42,314,959 | 38,195,186 | 35,014,659 | 32,367,302 | 30,109,229 | 27,202,700 | 24,173,338 | 22,072,374 |
| | | 5 | €9 | | | | | | | | | | |
| | Year | Ending | 09/30/2013 | 09/30/2012 | 09/30/2011 | 09/30/2010 | 09/30/2009 | 09/30/2008 | 09/30/2007 | 09/30/2006 | 09/30/2005 | 09/30/2004 | 09/30/2003 |
| | | | | | | | | | | | | | |

¹ Includes DROP distributions and contribution refunds

² Includes buybacks

³ Effective for fiscal year ending September 30, 2013, includes DROP account balances

Table XVI (Cont'd)

City Pension Fund for Firefighters and Police Officers in the City of Miami Beach

Recent Compensation, Termination and Investment Return Experience

| | | | | | Investment Return | |
|-------------------|--------------------------|------------------|-----------------------------|-----------------------|--------------------------|------------------------|
| | Compensation | nsation | Termination | | Smoothed | |
| Valuation Date | % Increase (Decrease) | Assumed Increase | Ratio of Actual to Expected | Market Value Yield | Actuarial Value Yield | Assumed Rate of Return |
| 10/01/2013 | 3.9% | 3.8% | 1.1 | 13.1% | 8.8% | 8.0% |
| 10/01/2012 | 2.6% | 3.9% | N/A | 20.2% | 3.6% | 8.1% |
| 10/01/2011 | 3.4% | 3.9% | N/A | (0.6%) | 2.6% | 8.2% |
| 10/01/2010 | 2.7% | 3.8% | N/A | 10.9% | 4.3% | 8.3% |
| 10/01/2009 | 7.9% | 4.4% | N/A | 1.4% | 4.5% | 8.4% |
| 10/01/2008 | 8.8% | 4.9% | N/A | (10.4%) | 4.9% | 8.5% |
| 10/01/2007 | 9.5% | 4.9% | N/A | 14.3% | 8.2% | 8.5% |
| 10/01/2006 | 7.9% | 4.8% | N/A | 8.3% | 5.3% | 8.5% |
| 10/01/2005 | 5.7% | 4.8% | N/A | 10.0% | 12.2% | 8.5% |
| 10/01/2004 | 6.3% | 4.8% | N/A | 9.7% | 4.5% | 8.5% |
| Last 3 Years | 4.3% | 3.9% | N/A | 10.6% | 2.0% | 8.1% |
| Last 5 Years | 4.7% | 4.0% | N/A | 8.7% | 4.7% | 8.2% |
| Last 10 Years | 6.1% | 4.4% | N/A | 7.3% | 2.8% | 8.3% |
| | | | | | | |

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Employer Contribution Information

| Valuation <u>Date</u> | Contribution Fiscal Year End | Minimum Required Employer ontributions | Actual City ontributions <u>Made</u> | ctual State ntributions <u>Made</u> | tual Employer ontributions Made |
|--------------------------|------------------------------------|---|--|---|----------------------------------|
| 10/01/2013 | 09/30/2015 | \$ 33,149,388 | N/A | N/A | N/A |
| 10/01/2012 | 09/30/2014 | \$ 35,960,326 | N/A | N/A | N/A |
| 10/01/2011 | 09/30/2013 | \$ 39,492,050 | \$ 39,371,501 | \$ 120,549 | \$ 39,492,050 |
| 10/01/2010 | 09/30/2012 | \$ 36,296,459 | \$ 36,176,910 | \$ 120,549 | \$ 36,297,459 |
| 10/01/2009 | 09/30/2011 | \$ 34,537,068 | \$ 32,691,021 | \$ 120,549 | \$ 32,811,570 |
| 10/01/2008 | 09/30/2010 | \$ 23,403,818 | \$ 23,283,269 | \$ 120,549 | \$ 23,403,818 |
| 10/01/2007 | 09/30/2009 | \$ 20,159,995 | \$ 20,039,446 | \$ 120,549 | \$ 20,159,995 |

20 Year Projections

Throughout the forecast period, new members are assumed to be hired each year at a rate sufficient to maintain a constant active employee headcount — stationary population. Newly employed members are assumed to have the same average demographic characteristics (age, gender, salary — adjusted each year for inflation) as those of members hired during the past five (5) years. State (Share Plan) contributions are projected to remain \$120,549 during the projection period.

These projections are deterministic – assume all actuarial assumptions are realized.

| Contribution Fiscal | Projected Annual Pensionable | Projected Required Co | • |
|------------------------|------------------------------|--------------------------|----------|
| <u>Year</u> | <u>Payroll</u> | Amount | % of Pay |
| 2014 - 2015 | 47,164,032 | 33,028,839 | 70.0% |
| 2015 - 2016 | 48,435,607 | 32,994,237 | 68.1% |
| 2016 - 2017 | 50,884,941 | 33,461,084 | 65.8% |
| 2017 - 2018 | 52,623,557 | 33,179,957 | 63.1% |
| 2018 - 2019 | 54,298,873 | 33,687,739 | 62.0% |
| 2019 - 2020 | 55,903,469 | 34,527,161 | 61.8% |
| 2020 - 2021 | 56,952,555 | 35,233,991 | 61.9% |
| 2021 - 2022 | 58,094,054 | 35,998,811 | 62.0% |
| 2022 - 2023 | 59,150,031 | 37,011,050 | 62.6% |
| 2023 - 2024 | 60,270,672 | 37,909,563 | 62.9% |
| 2024 - 2025 | 61,326,565 | 38,932,843 | 63.5% |
| 2025 - 2026 | 62,325,535 | 39,903,490 | 64.0% |
| 2026 - 2027 | 63,380,618 | 40,751,358 | 64.3% |
| 2027 - 2028 | 64,283,475 | 41,903,969 | 65.2% |
| 2028 - 2029 | 65,417,294 | 43,153,441 | 66.0% |
| 2029 - 2030 | 66,349,814 | 44,273,322 | 66.7% |
| 2030 - 2031 | 66,773,516 | 44,964,561 | 67.3% |
| 2031 - 2032 | 66,472,531 | 46,087,880 | 69.3% |
| 2032 - 2033 | 66,391,329 | 44,981,640 | 67.8% |
| 2033 - 2034 | 66,244,053 | 43,516,269 | 65.7% |
| 5 Year Totals | 253,407,010 | 166,351,855 | 65.6% |
| 10 Year Totals | 543,777,791 | 347,032,430 | 63.8% |
| 20 Year Totals | 1,192,742,521 | 775,501,203 | 65.0% |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - All Members

| | | 10/01/2012 | | | | rrent Methods d Assumptions 10/01/2013 |
|---|----|-----------------|-----|-------------|----|--|
| A. Participant Data | | 10/01/2012 | . — | 10/01/2015 | - | 10/01/2013 |
| 1. Active participants | | 428 | | 458 | | 458 |
| 2. Retired participants and beneficiaries | | | | | | |
| receiving benefits (including DROPs) | | 626 | | 638 | | 638 |
| 3. Disabled participants receiving benefits | | 56 | | 58 | | 58 |
| 4. Terminated vested participants | | 16 | | 15 | | 15 |
| 5. Total Annual Base Payroll | \$ | 37,289,573 | \$ | 39,283,718 | \$ | 39,283,718 |
| 6. Projected Annual Base Payroll | \$ | 38,594,708 | \$ | 40,658,648 | \$ | 40,658,648 |
| 7. Projected Annual Pensionable Payroll8. Annual benefits payable to those currently | \$ | 46,313,650 | \$ | 48,790,378 | \$ | 47,164,032 |
| receiving benefits (including DROPs) | \$ | 52,791,227 | \$ | 55,636,578 | \$ | 55,636,578 |
| B. Value of Assets | | | | | | |
| 1. Smoothed Actuarial Value | \$ | 545,067,653 | \$ | 599,336,717 | \$ | 663,233,454 |
| 2. Market Value | \$ | 622,408,229 | \$ | 710,329,822 | \$ | 710,329,822 |
| C. <u>Liabilities</u> | | | | | | |
| Actuarial present value of future expected benefit payments for active members | | | | | | |
| a. Retirement benefits | \$ | 311,906,148 | \$ | 309,472,252 | \$ | 309,472,252 |
| b. Vesting benefits | • | 618,205 | | 7,265,218 | • | 7,265,218 |
| c. Death benefits | | 3,447,640 | | 4,984,571 | | 4,984,571 |
| d. Disability benefits | | 22,887,347 | | 23,971,219 | | 23,971,219 |
| e. Total | \$ | 338,859,340 | \$ | 345,693,260 | \$ | 345,693,260 |
| 2. Actuarial present value of future expected benefit | | | | 6.97 | | |
| payments for terminated vested members | \$ | 2,840,139 | \$ | 3,097,833 | \$ | 3,097,833 |
| 3. Actuarial present value of future expected benefit | | | | | | |
| payments for members currently receiving benefits | | | | | | |
| a. Service retired (includes DROPs) | \$ | 672,768,278 | \$ | 676,822,574 | \$ | 676,822,574 |
| b. Beneficiaries | | (included in a) | • | 30,280,652 | | 30,280,652 |
| c. Disability retired | | 40,363,979 | | 40,609,957 | | 40,609,957 |
| d. Miscellaneous | | 5,854,784 | | 0 | | 0 |
| e. Total | \$ | 718,987,041 | \$ | 747,713,183 | \$ | 747,713,183 |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - All Members

| | | 10/01/2012 | | Prior Methods and Assumptions 10/01/2013 | | Current Methods and Assumptions 10/01/2013 | |
|---|----------|-----------------|----|--|----|--|--|
| 4. Total actuarial present value of future | | 1 0 60 60 6 700 | • | | • | | |
| expected benefit payments | \$ | 1,060,686,520 | \$ | 1,096,504,276 | \$ | 1,096,504,276 | |
| Actuarial accrued liabilities (EAN) Unfunded actuarial liabilities (EAN) | \$ \$ | 922,739,522 | \$ | 955,238,606 | \$ | 955,238,606 | |
| 6. Ontunded actuarial habilities (EAN) | Þ | 377,671,869 | \$ | 355,901,889 | \$ | 292,005,152 | |
| D. Statement of Accumulated Plan Benefits | | | | | | | |
| Actuarial present value of accumulated vested benefits | | | | | | | |
| a. Participants currently receiving benefits | \$ | 713,132,257 | \$ | 747,713,183 | \$ | 747,713,183 | |
| b. Other participants | - 2 | 120,906,735 | | 153,856,823 | | 153,856,823 | |
| c. Total | \$ | 834,038,992 | \$ | 901,570,006 | \$ | 901,570,006 | |
| 2. Actuarial present value of accumulated non- | | | | | | | |
| vested plan benefits | | 30,008,206 | | 7,401,076 | | 7,401,076 | |
| 3. Total actuarial present value of accumulated | | 064.047.400 | _ | | _ | 31.11 | |
| plan benefits | \$ | 864,047,198 | \$ | 908,971,082 | \$ | 908,971,082 | |
| E. Pension Cost | | | | | | | |
| 1. Total normal cost (including admin expenses) | \$ | 15,766,586 | \$ | 15,569,514 | \$ | 15,569,514 | |
| 2. Payment required to amortize unfunded liability | | 23,986,250 | | 23,240,473 | | 19,548,224 | |
| 3. Interest adjustment | | 3,297,845 | | 2,907,226 | | 2,618,352 | |
| 4. Expected service buyback | | 2,778,819 | | 134,174 | | 129,701 | |
| 5. Total required contribution | \$ | 45,829,500 | \$ | 41,851,387 | \$ | 37,865,791 | |
| 6. Item 5 as a percentage of projected pensionable payroll | | 99.0% | | 85.8% | | 80.3% | |
| 7. Estimated employee contributions | \$ | 4,631,365 | \$ | 4,879,038 | \$ | 4,716,403 | |
| 8. Item 7 as a percentage of projected pensionable payroll | | 10.0% | | 10.0% | | 10.0% | |
| 9. Estimated State contributions | \$ | 120,549 | \$ | 120,549 | \$ | 120,549 | |
| 10. Item 9 as a percentage of projected pensionable payroll | | 0.3% | | 0.2% | | 0.3% | |
| 11. Net amount payable by City | \$ | 41,077,586 | \$ | 36,851,800 | \$ | 33,028,839 | |
| 12. Item 11 as a percentage of projected pensionable payroll | | 88.7% | | 75.5% | | 70.0% | |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - All Members

| | 10/01/2012 | | Prior Methods and Assumptions 10/01/2013 | | Current Methods and Assumptions 10/01/2013 | |
|--|------------|-------------|--|-------------|--|-------------|
| F. Past Contributions | | | | | | |
| 1. Total contribution required (prior valuation) | \$ | 44,410,722 | \$ | 45,829,500 | \$ | 45,829,500 |
| 2. Actual contributions made: | | | | | | |
| a. Members | \$ | 5,091,354 | | N/A | | N/A |
| b. City | | 39,371,501 | | N/A | | N/A |
| c. State | | 120,549 | | N/A | | N/A |
| d. Total | \$ | 44,583,404 | | N/A | | N/A |
| G. Disclosure of Following Items: | | | | | | |
| 1. Actuarial present value of future salaries exclud | ling | | | | | |
| DROP payroll -attained age | \$ | 338,415,868 | \$ | 380,032,386 | \$ | 380,032,386 |
| 2. Actuarial present value of future employee | | | | | | |
| contributions - attained age | \$ | 48,394,041 | \$ | 38,003,239 | \$ | 38,003,239 |
| 3. Actuarial present value of future contributions | | | | | | |
| from other sources | | N/A | | N/A | | N/A |
| 4. Amount of active members' accumulated | | | | | | |
| contributions | \$ | 46,162,066 | \$ | 49,479,668 | \$ | 49,479,668 |
| 5. Actuarial present value of future salaries and | | | | | | |
| future benefits at entry age | | N/A | | N/A | | N/A |
| 6. Actuarial present value of future employee | | | | | | |
| contributions at entry age | | N/A | | N/A | | N/A |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - Firefighters

| | | 10/01/2012 | rior Methods d Assumptions 10/01/2013 | and | rrent Methods d Assumptions 10/01/2013 |
|---|------|----------------|---|-----|--|
| A. Participant Data | | | | | 11.70 |
| 1. Active participants | | 138 | 156 | | 156 |
| 2. Retired participants and beneficiaries | | | | | |
| receiving benefits (including DROPs) | | 263 | 269 | | 269 |
| 3. Disabled participants receiving benefits | | 7 | 8 | | 8 |
| 4. Terminated vested participants | | 3 | 4 | | 4 |
| 5. Total Annual Base Payroll | - \$ | 13,260,024 | \$ 14,674,485 | \$ | 14,674,485 |
| 6. Projected Annual Base Payroll | \$ | 13,724,125 | \$ 15,188,092 | \$ | 15,188,092 |
| 7. Projected Annual Pensionable Payroll | \$ | 16,468,950 | \$ 18,225,710 | \$ | 17,618,187 |
| 8. Annual benefits payable to those currently | | | = | | |
| receiving benefits (including DROPs) | \$ | 21,864,390 | \$ 23,173,062 | \$ | 23,173,062 |
| B. <u>Liabilities</u> | | | | | |
| 1. Actuarial present value of future expected | | | | | |
| benefit payments for active members | | | | | |
| a. Retirement benefits | \$ | 110,303,374 | \$ 112,054,354 | \$ | 112,054,354 |
| b. Vesting benefits | | 295,951 | 3,231,721 | | 3,231,721 |
| c. Death benefits | | 1,262,457 | 1,941,794 | | 1,941,794 |
| d. Disability benefits | | 7,927,554 | 8,724,437 | | 8,724,437 |
| e. Total | \$ | 119,789,336 | \$ 125,952,306 | \$ | 125,952,306 |
| 2. Actuarial present value of future expected benefit | | | | | |
| payments for terminated vested members | \$ | 808,134 | \$ 885,160 | \$ | 885,160 |
| 3. Actuarial present value of future expected benefit | | | | | -0 |
| payments for members currently receiving benefits | | | | | |
| a. Service retired (includes DROPs) | \$ | 295,311,083 | \$ 296,861,942 | \$ | 296,861,942 |
| b. Beneficiaries | (i | included in a) | 14,569,676 | | 14,569,676 |
| c. Disability retired | ` | 4,696,092 | 6,338,290 | | 6,338,290 |
| d. Miscellaneous | | 2,347,278 | 0 | | 0 |
| e. Total | \$ | 302,354,453 | \$ 317,769,908 | \$ | 317,769,908 |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - Firefighters

| | | 10/01/2012 | | and | rior Methods l Assumptions 10/01/2013 | Current Methods and Assumptions 10/01/2013 | |
|----|--|------------|-------------|-----|---|--|-------------|
| | 4. Total actuarial present value of future | _ | | _ | | | |
| ** | expected benefit payments | | 422,951,923 | | 444,607,374 | | 444,607,374 |
| | 5. Actuarial accrued liabilities (EAN) | \$ | 369,992,472 | \$ | 386,248,242 | \$ | 386,248,242 |
| C | Statement of Accumulated Plan Benefits | | | | | | |
| | Actuarial present value of accumulated vested benefits | | | | | | |
| | a. Participants currently receiving benefits | | N/A | \$ | 317,769,908 | \$ | 317,769,908 |
| | b. Other participants | | N/A | | 48,895,673 | | 48,895,673 |
| | c. Total | | N/A | \$ | 366,665,581 | \$ | 366,665,581 |
| | Actuarial present value of accumulated non- vested plan benefits | | N/A | | 2,759,415 | | 2,759,415 |
| | Total actuarial present value of accumulated plan benefits | \$ | 349,998,158 | \$ | 369,424,996 | \$ | 369,424,996 |
| D. | Disclosure of Following Items: | | | | | | |
| | 1. Actuarial present value of future salaries | | | | | | |
| | - attained age | \$ | 130,210,076 | \$ | 157,017,926 | \$ | 157,017,926 |
| | 2. Actuarial present value of future employee | | | | | | |
| | contributions - attained age | \$ | 18,189,222 | \$ | 15,701,793 | \$ | 15,701,793 |
| | 3. Actuarial present value of future contributions | | | | | | |
| | from other sources | | N/A | | N/A | | N/A |
| | 4. Amount of active members' accumulated | | | | | | |
| | contributions | \$ | 15,393,637 | \$ | 14,364,312 | \$ | 14,364,312 |
| | 5. Actuarial present value of future salaries and | | | | | | |
| | future benefits at entry age | | N/A | | N/A | | N/A |
| | 6. Actuarial present value of future employee | | | | | | |
| | contributions at entry age | | N/A | | N/A | | N/A |
| | | | | | | | |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - Police Officers

| | | 10/01/2012 | | Prior Methods and Assumptions 10/01/2013 | | Current Methods and Assumptions 10/01/2013 | |
|---|----|----------------|----|--|----|--|--|
| A. Participant Data | | 3 11 7 11 1 | | | | | |
| 1. Active participants | | 290 | | 302 | | 302 | |
| 2. Retired participants and beneficiaries | | | | | | | |
| receiving benefits (including DROPs) | | 363 | | 369 | | 369 | |
| 3. Disabled participants receiving benefits | | 49 | | 50 | | 50 | |
| 4. Terminated vested participants | | 13 | | 11 : | | 11 | |
| 5. Total Annual Base Payroll | \$ | 24,029,549 | \$ | 24,609,233 | \$ | 24,609,233 | |
| 6. Projected Annual Base Payroll | \$ | 24,870,583 | \$ | 25,470,556 | \$ | 25,470,556 | |
| 7. Projected Annual Pensionable Payroll | \$ | 29,844,700 | \$ | 30,564,667 | \$ | 29,545,845 | |
| 8. Annual benefits payable to those currently | | | | | | - 11 - 12 | |
| receiving benefits (including DROPs) | \$ | 30,926,837 | \$ | 32,463,516 | \$ | 32,463,516 | |
| B. <u>Liabilities</u> | | | | | | | |
| 1. Actuarial present value of future expected | | | | | | | |
| benefit payments for active members | | | | | | | |
| a. Retirement benefits | \$ | 201,602,774 | \$ | 197,417,898 | \$ | 197,417,898 | |
| b. Vesting benefits | | 322,254 | | 4,033,497 | • | 4,033,497 | |
| c. Death benefits | | 2,185,183 | | 3,042,777 | | 3,042,777 | |
| d. Disability benefits | | 14,959,793 | | 15,246,782 | | 15,246,782 | |
| e. Total | \$ | | \$ | 219,740,954 | \$ | 219,740,954 | |
| 2. Actuarial present value of future expected benefit | - | , | • | | * | | |
| payments for terminated vested members | \$ | 2,032,005 | \$ | 2,212,673 | \$ | 2,212,673 | |
| 3. Actuarial present value of future expected benefit | • | , | - | _,,_ | - | _,,_ | |
| payments for members currently receiving benefits | | | | | | | |
| a. Service retired (includes DROPs) | \$ | 377,457,195 | \$ | 379,960,632 | \$ | 379,960,632 | |
| b. Beneficiaries | (| included in a) | | 15,710,976 | • | 15,710,976 | |
| c. Disability retired | | 35,667,887 | | 34,271,667 | | 34,271,667 | |
| d. Miscellaneous | | 3,507,506 | | 0 | | 0 | |
| e. Total | \$ | 416,632,588 | \$ | | \$ | 429,943,275 | |

Actuarial Valuation as of October 1, 2013

State Required Exhibit - Police Officers

| | 10/01/2012 | | and | rior Methods I Assumptions 10/01/2013 | Current Methods and Assumptions 10/01/2013 | |
|--|------------|----------------------|----------|---|--|-------------|
| 4. Total actuarial present value of future | Φ. | <i>(25,524,505</i>) | Φ. | 651 006 000 | • | 651 006 000 |
| expected benefit payments | | 637,734,597 | | 651,896,902 | \$ | |
| 5. Actuarial accrued liabilities (EAN) | \$ | 552,747,050 | \$ | 568,990,364 | \$ | 568,990,364 |
| C. Statement of Accumulated Plan Benefits | | | | | | |
| Actuarial present value of accumulated vested benefits | | | | | | |
| a. Participants currently receiving benefits | | N/A | \$ | 429,943,275 | \$ | 429,943,275 |
| b. Other participants | | N/A | | 104,961,150 | | 104,961,150 |
| c. Total | | N/A | \$ | 534,904,425 | \$ | 534,904,425 |
| 2. Actuarial present value of accumulated non- | | | | | | |
| vested plan benefits | | N/A | | 4,641,661 | | 4,641,661 |
| 3. Total actuarial present value of accumulated | | | | | | TANDON TO |
| plan benefits | \$ | 514,049,040 | \$ | 539,546,086 | \$ | 539,546,086 |
| D. <u>Disclosure of Following Items:</u> | | | | | | |
| 1. Actuarial present value of future salaries | r | 208 205 702 | ታ | 222 014 460 | φ | 222 014 460 |
| - attained age2. Actuarial present value of future employee | \$ | 208,205,792 | \$ | 223,014,460 | \$ | 223,014,460 |
| contributions - attained age | \$ | 30,204,819 | \$ | 22,301,446 | \$ | 22,301,446 |
| 3. Actuarial present value of future contributions | Ф | 30,204,619 | Ф | 22,301,440 | Ф | 22,301,440 |
| from other sources | | N/A | | N/A | | N/A |
| 4. Amount of active members' accumulated | | 11/74 | | IV/A | | IN/A |
| contributions | \$ | 30,768,429 | \$ | 35,115,356 | \$ | 35,115,356 |
| 5. Actuarial present value of future salaries and | Ψ | 30,700,423 | Ф | 33,113,330 | Ф | 33,113,330 |
| future benefits at entry age | | N/A | | N/A | | N/A |
| 6. Actuarial present value of future employee | | 14/24 | | IVA | | 14/74 |
| contributions at entry age | | N/A | | N/A | | N/A |
| - original me divisity with | | 14/11 | | 14/71 | | 14/11 |

State Required Exhibit

Amortization balances are written down in proportion to amortization payments.

| | | Current Unfunded | | | Amortization | Remaining Funding | ng |
|------------|--|--------------------|--------------|----|----------------|-------------------|----|
| | Unfunded Actuarial Accrued Liabilities | <u>Liabilities</u> | | | <u>Payment</u> | <u>Period</u> | |
| 10/01/2001 | Initial Unfunded Liability | \$ | 12,385,446 | \$ | 964,301 | 18 years | |
| 10/01/2002 | Method Change | | 13,984,703 | | 1,050,786 | 19 years | |
| 10/01/2003 | Plan Amendment | | 1,199,314 | | 87,196 | 20 years | |
| 10/01/2003 | Actuarial (Gain) / Loss | | 36,108,743 | | 2,625,276 | 20 years | |
| 10/01/2004 | Actuarial (Gain) / Loss | | 38,532,918 | | 2,717,189 | 21 years | |
| 10/01/2005 | Method Change | | (34,007,837) | | (2,330,854) | 22 years | |
| 10/01/2005 | Assumption Change | | 6,840,348 | | 468,829 | 22 years | |
| 10/01/2005 | Actuarial (Gain) / Loss | | 25,401,700 | | 1,741,001 | 22 years | |
| 10/01/2006 | Method Change | | (5,088,252) | | (339,616) | 23 years | |
| 10/01/2006 | Actuarial (Gain) / Loss | | 22,026,022 | | 1,470,130 | 23 years | |
| 10/01/2007 | Actuarial (Gain) / Loss | | 25,556,825 | | 1,664,062 | 24 years | |
| 10/01/2008 | Assumption Change | | 6,060,624 | | 385,581 | 25 years | |
| 10/01/2008 | Actuarial (Gain) / Loss | | 33,451,275 | | 2,128,191 | 25 years | |
| 10/01/2009 | Assumption Change | | 23,693,771 | | 1,475,030 | 26 years | |
| 10/01/2009 | Actuarial (Gain) / Loss | | 68,191,567 | | 4,245,191 | 26 years | |
| 10/01/2010 | Assumption Change | | 4,568,335 | | 278,660 | 27 years | |
| 10/01/2010 | Actuarial (Gain) / Loss | | 17,263,566 | | 1,053,045 | 27 years | |
| 10/01/2011 | Plan Amendment | | (3,087,416) | | (184,755) | 28 years | |
| 10/01/2011 | Assumption Change | | 17,050,314 | | 1,020,313 | 28 years | |
| 10/01/2011 | Actuarial (Gain) / Loss | | 30,329,332 | | 1,814,947 | 28 years | |
| 10/01/2012 | Assumption Change | | 7,750,049 | | 455,495 | 29 years | |
| 10/01/2012 | Actuarial (Gain) / Loss | | 26,093,438 | | 1,533,593 | 29 years | |
| 10/01/2012 | Plan Amendment | | (19,943,131) | | (1,172,120) | 29 years | |
| 10/01/2013 | Actuarial (Gain) / Loss | | 1,540,235 | | 89,002 | 30 years | |
| 10/01/2013 | Method Change | I. | (63,896,737) | | (3,692,249) | 30 years | |
| | TOTAL | \$ | 292,005,152 | \$ | 19,548,224 | | |

This actuarial valuation and/or cost determination was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or other wise provided for in the valuation. All known events or trends which may require material increase in plan costs or required contribution rates have been taken into account in the valuation.

Enrollment Number: 14-02802

Dated: May 14, 2014

L. J. Wilson

Lawrence F. Wilson, A.S.A.